

IN THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims of this application:

Listing of Claims:

1. (Currently amended) Integrated speaker carrier and antenna element for a communication terminal, comprising:

a sheet of a flexible film having a conductive first portion forming a first antenna element;

and

an elongated second portion carrying a conductive lead, the elongated second portion including an inner end that is adjacent to the conductive first portion and an outer end that is connected to a speaker, such that the elongated second portion has a length defined by the inner end and the outer end and extends away from the conductive first portion and the inner end to the speaker and the outer end along at least a portion of the length;

wherein said elongated second portion is bent such that a primary audio output side of the speaker faces the first portion and that said speaker and said outer end of said elongated second portion are positioned at an aperture in said first portion, ~~and~~

wherein a support structure carrying a second antenna element is arranged at a predetermined distance from said first antenna element, which two antenna elements form a spacing for housing the speaker; and

wherein said flexible film is made from an insulating material, and wherein said first conductive portion and said lead form parts of a layer of a conductive material coated on said flexible film.

2. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said second portion carries a pair of conductive leads from adjacent said first portion to respective speaker connection pads at said outer end.

3. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said second portion carries at least one conductive lead which is electrically insulated from said first portion.

4. (Canceled)

5. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said conductive lead extends from a connection pad arranged adjacent to said first portion at a straight edge of said flexible film.

6. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said conductive first portion is a ground plane of an antenna for a radio communication terminal.

7. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said conductive first portion is an antenna element of an antenna for a radio communication terminal, and has a pattern adapted to provide resonance at predetermined radio frequencies.

8. (Canceled)

9. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said flexible film is attached to said support structure such that said conductive first portion is electrically connected to a ground plane of said support structure.

10. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said flexible film is attached at a side edge thereof to said support structure, at which a side edge of a connector pad to said conductive lead is arranged.

11. (Previously presented) The integrated speaker carrier and antenna element as

recited in claim 10, wherein said connector pad is connected, at said side edge thereof, to speaker control circuitry arranged on said support structure.

12. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein said flexible film is bar soldered at a straight edge to said support structure, said conductive first portion being electrically connected to a ground plane of said support structure at said straight edge, and wherein a connector pad to said conductive lead is connected to speaker control circuitry arranged on said support structure.

13. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 1, wherein an insulating spacer is arranged intermediate said support structure and said flexible film, defining said predetermined distance between said first and second antenna elements.

14. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 13, wherein said spacer comprises speaker attachment means devised to secure said speaker adjacent to said aperture.

15. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 13, wherein said flexible film is attached to said spacer with an adhesive.

16. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 13, wherein said spacer is attached to said support structure by cooperating engagement members.

17. (Previously presented) The integrated speaker carrier and antenna element as recited in claim 13, wherein said spacer has a protruding member engaging with a recess in said support structure.

18. (Previously presented) The integrated speaker carrier and antenna element as

recited in claim 1, wherein said support structure is a printed circuit board of a radio communication terminal.

19. (Previously presented) A radio communication terminal, comprising an integrated speaker carrier and antenna element as recited in claim 1.

20. (Previously presented) A method of manufacturing an integrated speaker carrier and antenna element for a communication terminal, comprising:

providing a flexible film of an insulating material, having a first conductive surface portion forming a first antenna element, and an elongated second portion having an inner end adjacent to said first portion, said elongated second portion carrying a lead insulated from said first portion;

attaching a speaker to an outer end of the elongated second portion, connected to said lead;

forming an aperture in said first portion; and

bending the elongated second portion such that a primary audio output side of the speaker faces the first portion and said speaker and that said outer end of the elongated second portion are positioned at the aperture;

arranging a support structure carrying a second antenna element at a predetermined distance from said first antenna element, the two antenna elements forming a spacing for housing the speaker;

wherein the elongated second portion has a length defined by the inner end and the outer end and extends away from the conductive first surface portion and the inner end to the speaker and the outer end along at least a portion of the length.

21. (Previously Presented) The method as recited in claim 20, wherein providing a flexible film comprises:

coating said insulating film with a conductive material;

removing selected portions of the conductive material from the film, to define the first conductive surface portion and the lead; and

cutting the film such that the elongated second portion thereof, carrying said lead, is shaped.

22. (Previously presented) The method as recited in claim 21, wherein removing selected portions of the conductive material comprises etching.

23. (Previously presented) The method as recited in claim 21, wherein removing selected portions of the conductive material comprises defining a pair of separate leads insulated from said first portion and extending away from adjacent to said first portion.